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Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



OMRON

DeviceNet Model

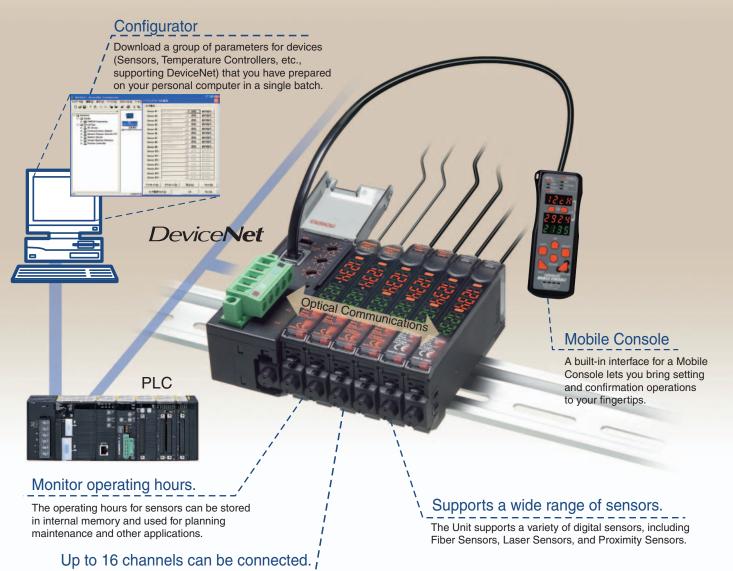
The DeviceNet Communication Unit That Simplifies Managing Sensor Settings

- ON/OFF signals and incident light levels can be sent to the host PLC without any need for programming (DeviceNet communications slave functionality).
- Threshold values and function settings can be read, written, or taught (using the Message Communications function).
- Simply connect the communication cables and slide the Amplifiers from the side for wire-saving.
- Up to 16 Sensor Amplifiers can be connected.

PLC	
	Digital Sensor Communication Unit E3X-DRT21-S VER.3

CE For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

A Network That Expands Your World



Ordering Information

Digital Sensor Communication Unit		Wire-saving Connector (sold separately)		
Туре	Model		Туре	Model
Device Net	E3X-DRT21-S VER.3		Cordless Slave Connector	E3X-CN02
Note : Order as many Connectors as the number of Sens				

Ratings and Specifications

Item		Description		
Communications M	ethod	DeviceNet communications		
Communications Remote I/O Communications Slave function		Monitors ON/OFF output, status, incident light level (digital display data)		
functions	Message Communications function	Sets parameters using Explicit messages		
	Configurator	Edits slave device parameters, enables device monitor functions		
Mobile Console connection		E3X-MC11-SV2 can be connected		
Power supply		Supplied from the DeviceNet communications connector (power is also supplied to all connected Sensors through Wire-reducing Connectors)		
Maximum connectable Sensors (See note 1.)		For remote I/O communications 1-CH mode (See note 2.) : 13 For remote I/O communications 2-CH mode (See note 3.) or 16 for remote I/O communications 2-CH mode + detection level monitoring mode (See note 4.) : 16		
Connectable Sensors (See note 5.)		E3X-DA-S Series or E3X-MDA Series Digital Fiber Sensor E3C-LDA Series Laser Photoelectric Sensor with Separate Digital Amplifier E2C-EDA High-resolution Digital Proximity Sensor with Separate Amplifier (use connector-type Amplifier Units and the E3X-CN02 Cordless Slave Connector)		
Power supply voltage		11 to 25 VDC		
Current consumption (See note 6.) 70 mA max		0 mA max.		
Ambient operating t	nt operating temperature -20 to 55°C			
Ambient operating I	numidity	30% to 85% (with no condensation)		
Storage temperatur	ature –30 to 70°C			
Dimensions (mm)		30 x 34.6 x 71.3 (WxHxD)		
Weight (packed state) A		Approx. 150 g		

Note 1: When any of the following Sensors is connected, two words are allocated per Sensor and each Sensor is counted as two Sensors for the number of connected Sensors. E3X-DA - S (:: 7/9), E3X-DA TW-S (:: 6/8), E3X-MDA (:: 6/8), E3C-LDA (:: 6/8), E2C-EDA (:: 6/8)

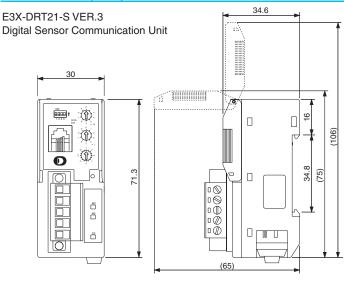
2: Communications is possible for the ON/OFF output data from 13 Units. One word is allocated as the input area in the Master.

- 3: Communications is possible for the ON/OFF output data from 16 Units and the number of connected Sensors. Two words are allocated as the output area in the Master. 4: Communications is possible for the ON/OFF output data from 16 Units, the number of connected Sensors, and the detection levels for the connected Sensors.
- Two words are allocated as the input area and one word is allocated for the number of connected Sensors in the Master. 5: Connection cannot be performed if the response speed of the Sensor is set to super-high-speed mode.

6: This does not include the current supplied to the Sensor.

Dimensions (mm)

Tolerance class IT16 applies to dimensions in this datasheet unless otherwise specified.



This document provides information mainly for selecting suitable models. Please read the Instruction Sheet carefully for information that the user must understand and accept before purchase, including information on warranty, limitations of liability, and precautions.

Note: Do not use this document to operate the Unit.

OMRON Corporation Industrial Automation Company Authorized Distributor: Tokyo, JAPAN Contact: www.ia.omron.com Regional Headquarters **OMRON EUROPE B.V. OMRON ELECTRONICS LLC** One Commerce Drive Schaumburg, Sensor Business Unit Carl-Benz-Str. 4, D-71154 Nufringen, Germany IL 60173-5302 U.S.A Tel: (49) 7032-811-0/Fax: (49) 7032-811-199 Tel: (1) 847-843-7900/Fax: (1) 847-843-7787

OMRON ASIA PACIFIC PTE. LTD. No. 438A Alexandra Road # 05-05/08 (Lobby 2), Alexandra Technopark. Singapore 119967 Tel: (65) 6835-3011/Fax: (65) 6835-2711

OMRON (CHINA) CO., LTD. Room 2211. Bank of China Tower. 200 Yin Cheng Zhong Road, PuDong New Area, Shanghai, 200120, China Tel: (86) 21-5037-2222/Fax: (86) 21-5037-2200

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